Title (en)
Soft decision method and system, and receiver

Title (de)
Verfahren und System zur weichen Entscheidung, und Empfänger

Title (fr)
Procédé et système de décision douce, et récepteur

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Application
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Abstract (en)
A method of outputting a demodulation result for soft-decision decoding is provided, which is comprised of the steps of: (a) detecting a channel distortion of a received signal generated in a communication channel using a training signal contained in the received signal and a reference training signal, outputting a channel distortion data; (b) generating a distortion-based reliability data from the channel distortion data; (c) compensating the received signal using the channel distortion data, generating a compensated, received signal; (d) demodulating the compensated, received signal and deciding the received signal thus demodulated using a soft decision technique, outputting a decision result; and (e) outputting a demodulation result using the decision result and the distortion-based reliability data. Thus, the channel distortion data (instead of the level of the received signal) is used as the level reliability information. As a result, the level reliability information can be obtained independent of the demodulation data and therefore, the necessary reliability information can be outputted with high accuracy using a simple circuit configuration. <IMAGE>

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